PTO/SB/05 (06-03)

Approved for use through 07/31/2003. OMB 0651-0032 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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## UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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	Attomey Docket No.	44471/298745									
	First Inventor	Torahide Takahashi									
	Title	Heat Exchanger									
	Express Mail Label No.	EL 999329103 US									

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO:  Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450										
1.  Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27.  3.  Specification [Total Pages 24 ] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed)	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Reader Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. Paper  c. Statements verifying identity of above copies										
- Detailed Description - Claim(s)	ACCOMPANYING APPLICATION PARTS										
- Abstract of the Disclosure  4.	9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other:										
18. If a CONTINUING APPLICATION, check appropriate box, and suppose specification following the title, or in an Application Data Sheet under 37											
specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP)  At Matter											
Prior application information:  Examiner  For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.											
19. CORRESPONE	DENCE ADDRESS										
Customer Number: 23370 OR Correspondence address below											
Name											
Address											
	State Zip Code										
	elegindne/ Fax										
Name (Print/Type) Robert E. Righards / Registration No. (Attomey/Agent) 29,105											
Signature Date 3/24/24											

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## ORIGINAL

PTO/SB/17 (10-03)

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FEE TRANSMITTA		Complete if Known								
FEE IKANSIVIIIIA	L	Application Number								
for FY 2004		Filing Date			03/2	03/24/2004				
		First Named Inventor			ntor Tora	ahide	e Takahas	shi		
Effective 10/01/2003. Patent fees are subject to annual revision		Examiner Name					-			
Applicant claims small entity status. See 37 CFR 1.27		Art Unit				<u>-</u> .				
TOTAL AMOUNT OF PAYMENT (\$) 900.00	Attorney Docket No. 4447				71/2	98745				
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)								
Check Credit card Money Other None	3. ADDITIONAL FEES									
Deposit Account:	Large Entity   Small Entity									
Deposit Account 11-0855	Fee Cod	Fee e (\$)	Fee Code	Fee (\$)	F	Fee D	escription	1	Fee Paid_	
Number	1051	1 130	2051	65	Surcharge -	- late	filing fee or o	oath	130	
Deposit Account KILPATRICK STOCKTON LLP	1052	2 50	2052	25	Surcharge -		provisional f	iling fee or		
Name The Director is authorized to: (check all that apply)	1053	3 130	1053	130	Non-English		cification			
Charge fee(s) indicated below Credit any overpayments	1812	2 2,520	1812	2,520	For filing a	ling a request for ex parte reexamination				
Charge any additional fee(s) or any underpayment of fee(s)	1804	4 920*	1804	920*	Requesting Examiner a	resting publication of SIR prior to				
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	5 1,840*	1805	1,840*	Requesting Examiner a	uesting publication of SIR after				
FEE CALCULATION	125	1 110	2251	55	Extension t	for rep	ply within firs	st month		
1. BASIC FILING FEE	1252	2 420	2252	210	Extension	for re	ply within se	cond month	I	
Large Entity Small Entity	1253	3 950	2253	475	Extension	for rep	ply within thi	rd month	<u> </u>	
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1001 770 2001 385 Utility filing fee 770	125	5 2,010	2255	1,005	Extension	for re	ply within fift	h month		
1002 340 2002 170 Design filing fee	1401	1 330	2401	165	Notice of A	Appea	ı			
1003 530 2003 265 Plant filing fee	1402		2402		•		support of an	appeal		
1004 770 2004 385 Reissue filing fee	1403		2403		Request fo		_			
1005 160 2005 80 Provisional filing fee	145	1 1,510	1451 2452				•	ise proceeding		
SUBTOTAL (1) (\$) 770			j				e - unavoidat			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		3 1,330 1 1,330	2453 2501		Utility issue	-	e - unintentic	onai		
Fee from Extra Claims below Fee Paid	1502		2502		Design issu		•			
Total Claims 17 - 20 = 0 X 18 = 0	1503		2503		Plant issue					
Independent Claims 1 - 3 = 0 x 86 = 0	1460	130	1460	130	Petitions to	o the	Commission	er		
Multiple Dependent =	1807	7 50	1807	50	Processing	g fee ı	under 37 CF	R 1.17(q)		
Large Entity   Small Entity	1806	180	1806	180	Submission	n of In	formation D	isclosure Stmt		
Fee Fee Fee Fee Fee Description Code (\$)	8021	1 40	8021	40	Recording property (ti	each imes r	patent assig	nment per roperties)		
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809			bmiss	ion after fina			
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1204 86 2204 43 ** Reissue independent claims over original patent	180	1 770	2801	385		•	FR 1.129(b) ntinued Exa			
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and over original patent	Othe	or foot lon			of a desigr	n appl	lication		<del> </del>	
SUBTOTAL (2) (\$) 0 Other fee (specify)								(3) (\$) 130	<del></del>	
SUBMITTED BY (Complete (if applicable))										
Name (Print/Type) Robert E. Richards //	//T	Parintentian No.					• • •	404.815.6500		
Signature /		I AND WAY SHILL					Date 03/24/2004			

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